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	Application No.	Applicant(s)	
Notice of Allowability	09/763,934 Examiner	DORNSTETTER ET	AL.
	Chieh M Fan	2634	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>the amendment filed</u>	<u>9/7/04</u> .		
2. ☑ The allowed claim(s) is/are <u>1-8</u> .			
3. The drawings filed on 26 July 2001 are accepted by the Ex	kaminer.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. iitted. Note the attached EXAMINER es reason(s) why the oath or declara st be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the C 84(c)) should be written on the drawin he header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL In	complying with the rec 'S AMENDMENT or Nation is deficient. 948) attached Office action of the mass in the front (not the mass). The must be submitted.	quirements OTICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), le nent/Comment	·

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DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael L. Kenaga on 09/28/04.

The application has been amended as follows:

In the claims:

- a. In claim 1, line 5, "the complex plane of the Z-transform" has been changed to --- a complex plane of a Z-transform ---.
- b. In claim 2, line 8 (the last line), "in Z⁻¹" has been changed to --- in Z⁻¹, and H denotes conjugate transpose ---.
- c. In claim 4, line 2, " $\square_1,...,\square_W$ " has been changed to --- $\alpha_1,...,\alpha_W$ ---.
- d. In claim 4, line 3, " \square_q " has been changed to --- δ_q ---.
- e. In claim 5, line 6, "the complex plane of the Z-transform" has been changed to --- a complex plane of a Z-transform ---
- f. In claim 6, line 8 (the last line), "in Z⁻¹" has been changed to --- in Z⁻¹, and H denotes conjugate transpose ---.

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g. In claim 8, line 2, "W roots" has been changed to --- W roots $\alpha_1, \dots, \alpha_W$ ---.

h. In claim 8, line 3, " \square_q " has been changed to --- δ_q ---.

Statement of Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-4, the prior art of record does not teach "obtaining an intermediate signal by applying a first equalization method to the received signal based on a finite impulse response having a Z-transform consisting of a polynomial of degree W-p in Z^{-1} , having roots equal to the W-p roots of the first set; and obtaining estimations of the discrete information symbols by applying a second equalization method to the intermediate signal based on a finite impulse response having a Z-transform consisting of a polynomial of degree p in Z^{-1} having roots equal to the p roots of the second set."

Claims 5-8 are corresponding apparatus claims of claims 1-4, and are allowed for the same reason above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chieh M Fan whose telephone number is (571) 272-

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3042. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM, Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Chieh M Fan Primary Examiner Art Unit 2634

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cmf September 28, 2004